

ALLIED
MUSIC CENTRE

MASSEY
HALL

MUSIC
HALL

ROY THOMSON
HALL

Massey Hall

Technical Information

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Table of Contents

Doug McKendrick

- STAGE INFORMATION pg. 3
- LOADING AREA pg. 4
- PARKING INFO / DIRECTIONS pg. 5
- FACILITY POWER & ELECTRICAL pg. 6
- UNIONS pg. 7
- LIGHTING pg. 8
- RIGGING pg. 10
- AUDIO pg. 11
- COMMS / STAGING pg. 14
- CONTENT CAPTURE / RECORDING pg. 15
- DRESSING ROOMS / CATERING pg. 17
- MUSKOKA SPIRITS BASEMENT BAR pg. 18
- GROLSCH BAR (LEVELS 2 & 3) pg. 20



Stage Information

Built in 1894 and extensively renovated in 2021, Massey Hall is a classical, fixed plaster-shell, concert hall. The stage has some masking but is without any wing spaces. There is no proscenium. The entrance to the stage is via upstage left and upstage right swinging doors, as well as upstage centre, which connects to the loading dock. The stage floor surface is clear, polyurethane-coated hardwood strip. No drilling or screwing into stage floor is permitted. There are other production limitations inherent to the structure. Please contact Production.Group@mh-rth.com

Due to fire code regulations, the use of open flame or pyrotechnics is forbidden.

Stage Dimensions

60' 6" wide upstage
73' wide downstage
35' deep at center
56' height clearance

FOH Dimensions

16' deep
10'5" wide
41': Distance from DSE



Loading Area

The loading dock is located via Victoria Street (east side of building).

Trucks must approach the entrance to the loading dock by driving southbound on Victoria Street in order to maneuver into the loading bay. There is a (9'-9" x 23'-4") lift to elevate gear from dock level to stage level (approx. 8'). Once at stage level, gear can be pushed from the dock area through an opening upstage center on to the stage.

Stage level is approximately 4' 6" above auditorium floor. A ramp is provided to allow FOH equipment to move from stage to FOH area. There is very little storage space for empty production cases. Tours carrying large amounts of equipment should be prepared to backload empty cases.

Parking

Once unloaded, there is room for ONE truck or ONE tour bus/trailer to park in the dock area. This must be arranged in advance. Trucks or busses may not run generators or idle for extended periods of time while in the loading dock. Shore power and U-Ground power connections are available. There is also a shared laneway next to the loading dock, which must remain clear of vehicles at all times. Please contact Production.Group@mh-rth.com for further information.

Truck Directions

Please ensure all drivers have the correct directions to the LOAD IN/OUT address for Massey Hall:

178 Victoria Street, Toronto (GPS: 43.653845, -79.378577 / 43°39'13.8"N 79°22'42.9"W)

*There is absolutely **NO PARKING** on Shuter Street in front of the venue.*

We understand the challenges of driving a large truck in downtown Toronto. It is for everyone's benefit to know and follow these directions:

From the East via DVP / Gardiner Expressway: Exit at York / Bay / Yonge St and head North on Yonge St. Right turn at Shuter St. - one (1) street north of Queen St. (Venue is on the right). Right turn on Victoria St. Loading dock is on the right at rear of building.

From the West via 427 / Gardiner Expressway: Exit at Jarvis St. (Exit 155) from Gardiner E, follow Jarvis St. to Richmond St. E. Turn left. Follow Richmond to Yonge St. Turn right. Right turn at Shuter St. - one (1) street north of Queen St. (Venue is on the right). Right turn on Victoria St. Loading dock is on the right at rear of building.



Facility Power and Electrical

Massey Hall

Attic above House

Capacity.....1 x 400 AMP, 1 X 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

Massey Hall

Attic above Stage

Capacity.....1 x 400 AMP, 1 X 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed.

Massey Hall

Shuter St. Broadcast Power

Capacity.....1 x 400 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

Massey Hall

Laneway Power

Capacity.....1 x 100 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

Massey Hall Lighting

Stage Right

Capacity..... 2 x 400 AMP, 1 x 200 AMP
Phase..... 3
Voltage..... 120/208
Cycles..... 60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed.

Massey Hall Audio

Stage Left

Capacity.....2 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed.

Massey Hall

Loading Dock

Capacity.....1 x 400 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed.

Massey Hall

Victoria St. Broadcast Power

Capacity.....1 x 400 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

L2 Lobby

West side of lobby

Capacity.....1 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

L3 Lobby

West side of lobby

Capacity.....1 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed



Unions

The Allied Music Centre (and all facilities therein) operates within the jurisdiction of the International Alliance of Theatrical Stage Employees & Moving Picture Technicians, Artists and Allied Crafts (IATSE Local 58 & IATSE Local 822).

For further information, please contact Production.Group@mh-rth.com

Lighting

Please find the Massey Hall lighting plot at the end of this document. Please reach out to production with any questions. *NOTE – House Lighting Plot is not adjustable.

Portable Dimmers

- 2 x Leprecon ULD 240 HP 4 Channel DMX Controllable Dimmer Pack with standard U ground connectors

Fixed Focus Fixtures

- 32 ETC Source 4 @ 575 watts on gallery rail
- 12 Martin Atomic 3000 LED Strobe 4 top mounted on downstage chord of each truss
- 40 ETC Arc-Pro 4 Cell Square Yoke for Orchestra concert lighting

Moving Head Fixtures (Flown)

- 12 Martin Mac Viper Performance
- 15 Martin Mac Viper Profile
- 28 Martin Mac Aura XB
- 14 Clay Paky Sharpie

Lighting Positions

There are four permanent house lighting trusses. House trusses are Prolyte S36PRF Fixed PreRigTruss. All trusses are comprised of 10ft sections. Points are rigged with permanent chain motors on encoders with cable reelers.

The positions and lengths are as follows:

- Upstage 50ft truss – 29'9" from DSE
- Mid-stage 50ft truss – 20'7" from DSE
- Downstage 40ft truss – 9'11" from DSE
- Front of House 40ft truss – 9'9" in front of DSE



Lighting

Follow Spots

- 4 total: 4 X 1.2KW Lycian Superstars w/ 6 colour boomerangs (two of each in spot booths house left and right)
- 80' throw.

Effects

- 2 Look Solutions Unique 2.1 Haze Machines with integrated fan and Haze Density control system.
- Hazers are DMX controllable.

Lighting Console

- **GrandMA2 full-Size Stage** lighting console with 65,536 parameter control and 30 Motorized faders. Backup is achieved via a dedicated MA on PC system with a fader wing located in front of house portable data rack. Console software is updated regularly.

Touring Console

- Touring lighting consoles are typically located at the back of the auditorium, house center-right, behind the sound position. Touring console position varies from show to show. Control cable length from dimmers stage right to console is 200 feet.





Rigging

All rigging weights are monitored via Broadweight wireless load cells.

Rigging plot can be provided upon request to the Production Dept. in advance.

For further information, please contact Production.Group@mh-rth.com

Audio

House Sound System

37 Box D&B J System with 16 Subs and fills deployed as follows.

L/R ARRAY

- (8) J8s flown per side
- (3) J12s flown per side
- (6) V subs flown per side behind line array
- (1) Vi10 Corner Fill per side

CENTRE ARRAY

- (8) J12
- (3) J8

FRONT FILL

- (8) Clair Brothers FF2-HP Passive 2-Way Front Fills (built in to the front of the stage for seated events)
- (8) D&B Y7 (placed evenly across lip of stage for GA events)

UNDER BALCONY & PROSCENIUM FILLS

- Various combinations of Y7 and E6 cabinets throughout the venue for under balcony fills and side proscenium fills.

PROCESSING

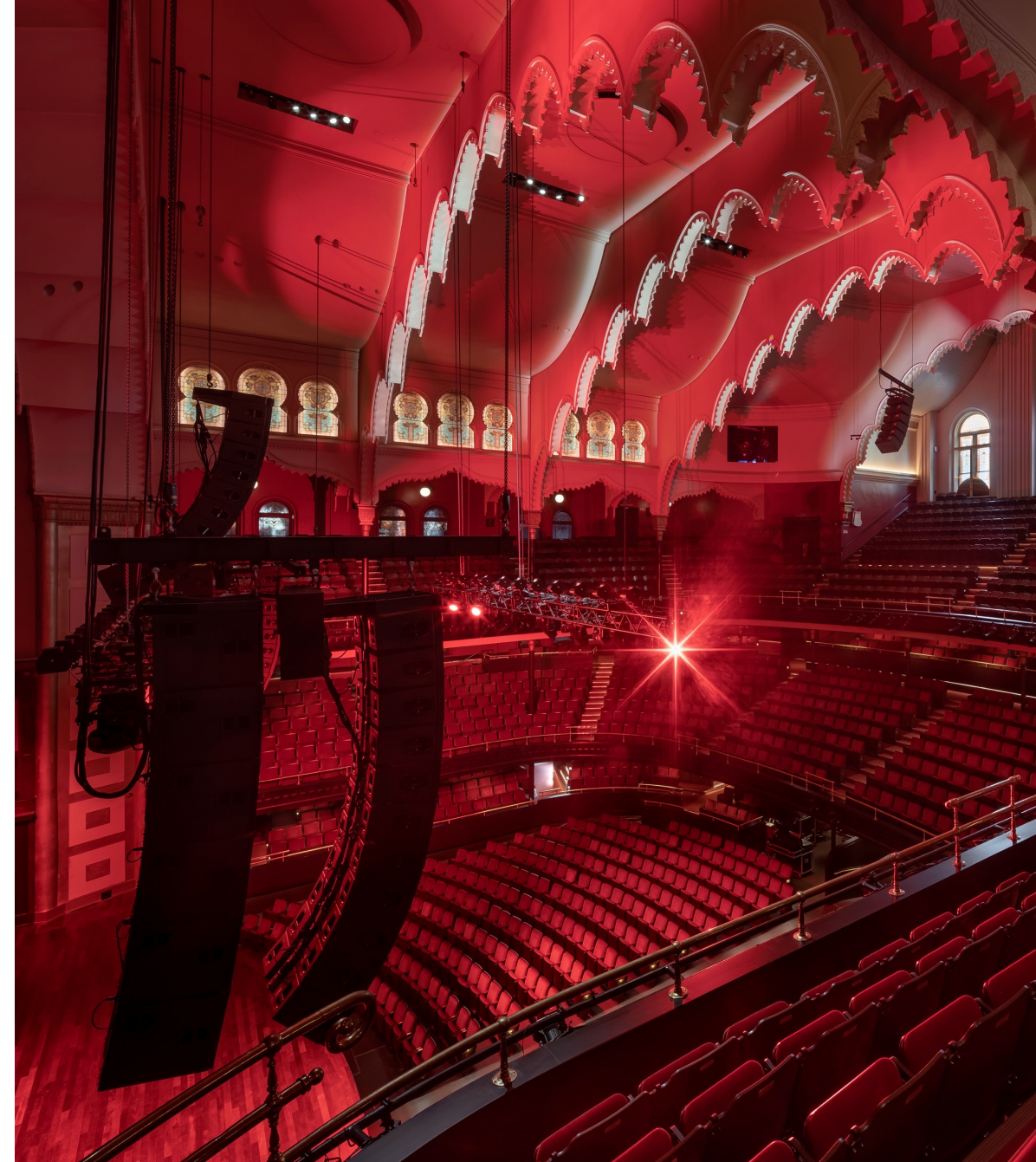
- D&B Array Processing is utilized for all arrays. All powered by a combination of 30D, 10D and D80 amplifiers. Signal distribution is via Optocore and a full digital signal path is utilized from console to speaker at 96k. FOH processing and EQ is via Meyer Galileo Galaxy Network Audio processors.

L/R DECK FILL

- (2) J12s per side
- (2) J Subs per side

GALLERY FILL

- (6) V12



Audio

Consoles

FOH CONSOLE

Avid VENUE S6L-24D

E6L-112 Engine with MADI-192 Card

Avid Stage I/O Rack - 48 channels of input

- (6) AVID SRI-192 Analog Input Cards –
- (2) AVID SRO-192 Analog Output
- (1) AVID DSO-192 AES Input Cards
- (1) Denon DN-700RXUS Hard drive
Playback / Recorder

FOH CONSOLE

- (1) 48 EMG 48-channel 3-way ISO split
- (3) 48-Channel Fan-Out
- (2) 48-Channel extension cable

MONITOR CONSOLE

Avid VENUE S6L-24C

E6L-112 Engine with MADI-192 Card

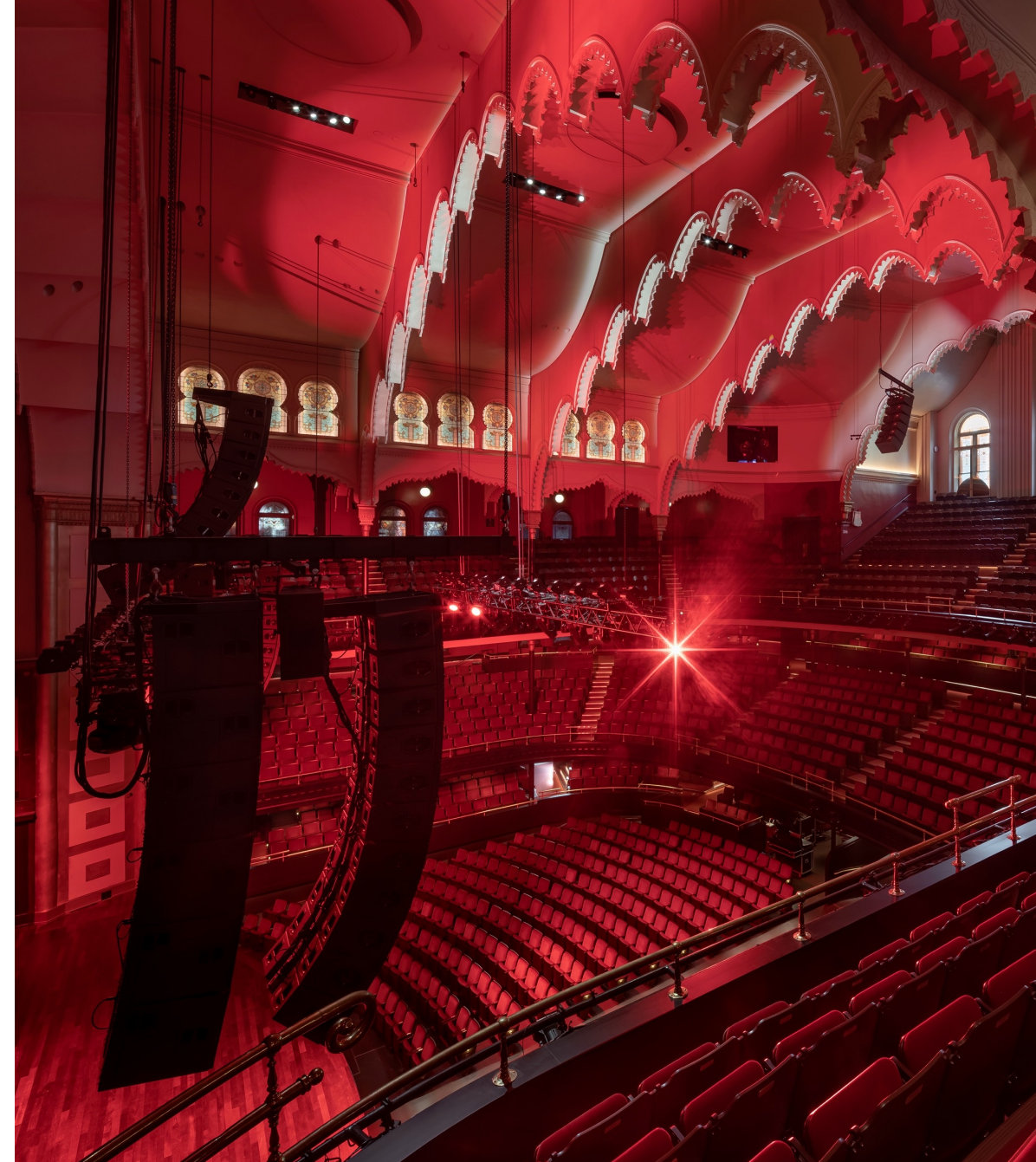
**Avid Stage I/O Rack - - 48 channels of
input**

- (6) AVID SRI-192 Analog Input Cards
- (3) AVID SRO-192 Analog Output Cards
- (1) AVID DSO-192 AES Input Cards

MONITORS

(shared facility wide, subject to advance)

- (4) D&B D20 amplifiers capable of 4 mixes
- (16) D&B M6 Passive monitors
- (2) D&B 18S Subwoofers



Audio

Touring Consoles

Touring FOH sound consoles are located at the back of the house adjacent to the lighting position. **Control cable length from dimmers stage right or patch bay stage left to console is 200 feet.**

Microphones and DI's

SHURE

- (10) SM58
- (6) SM57
- (2) Beta 52a
- (6) Beta 57a
- (7) Beta 58a
- (4) Beta 87c
- (2) Beta 91a
- (4) Beta 98AMP/C
- (2) Beta 98H/C
- (4) KSM137

AKG

- (2) AKG414 (large diaphragm condenser)

NEUMAN

- (3) KM 184

AUDIO TECHNICA

- (2) AT-2020 (large diaphragm condenser)

SENNHEISER

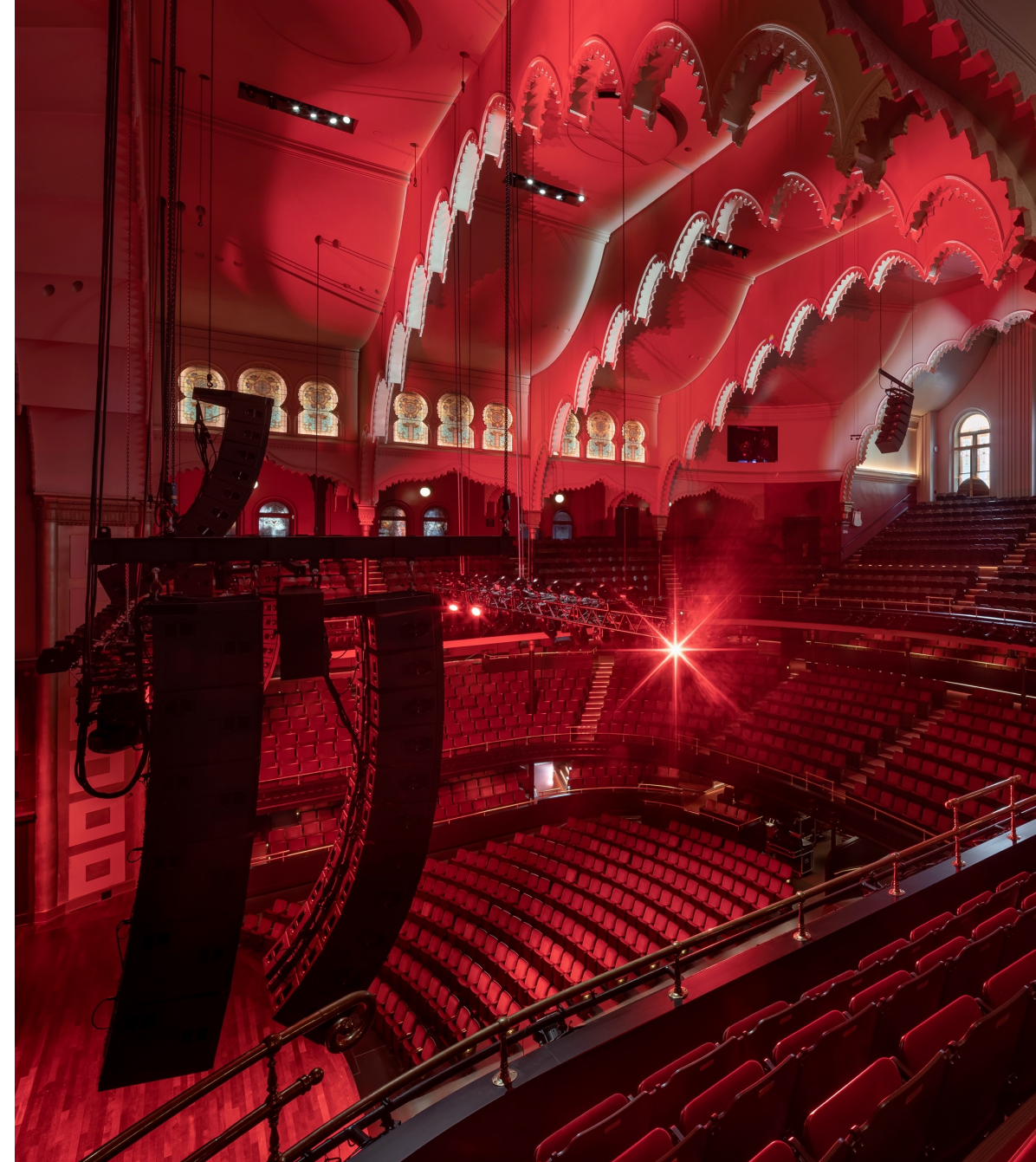
- (4) E609
- (2) MD421-II (instrument mic)

DPA

- (2) 4099 (piano kit)

RADIAL

- (3) J48 Active DI
- (6) PRO D1 Passive DI
- (2) PRO D2 Stereo DI
- (1) JPC Computer DI





Communications

Riedel system with 15 belt-packs and 18 headsets, located at each stage entrance, at each follow spot, and 5 for front-of-house control positions.

Staging

Stage Risers

- 8 x 4'x8' stage decks
- Various leg heights: 8", 12", 18", 24"
- Legs are stationary (non-rolling risers)

Stage Drapes

- Legs: 2 @ 8' wide x 40' high black wool serge
- Backdrop: 1 @ 50' wide x 40' high black wool serge (Acoustic Drape)

Orchestra Seating and Stands

For information, please contact Production.Group@mh-rth.com

Content Capture

AMC has full audio and video recording facilities, located on the 5th floor. Our content capture suite is wired into both video and audio within the main hall as well as other locations within the building. Below is the basic list of equipment we have within our studio. Please reach out to production for further information.

Video Capture Suite

PTZ Camera System

- 7 x Panasonic AW-UE150KPJ 4K PTZ Camera
- Permanent Camera Locations are:
 - House Left
 - Center Rear 1
 - Center Rear 2
 - House Right
- 3 x cameras are used as floaters and can be placed as desired.

PTZ Camera Control

- 2 x RCT CS-3 PTZ Remote

Live Switching and Control

- Ross Video Carbonite SD/HD/3G/UHD Switcher
- Ross Video Ultrix-FR5 12G SDI Video Router
- Ross Video TouchDrive TD2S Control Panel
- Ross Video Ultricore TLX Tie line Management System
- Ross Video Dashboard Software

Video Recorders

- 8 x Blackmagic Design HYPERDECK/ST/DG4P Media Recorder
- 2 x Data Video HDR 80 Program Recorders

Video System, Livestream and Software

- 1 x Blackmagic Web Presenter
- 1 x Blackmagic Multidock
- 1 x Mac Mini M1 Streaming Computer

Video Distribution

- 1 x Ultricore RCP QE36 Router

Control Room Video/ Audio Monitoring

- 2 x NEC E498 55" Monitor
- 2 x Focal Shape Twin Audio Monitors

System Clock and Timecode

- Tektronix SPG8000 Master Clock Reference and Generator



Content Capture

AMC has full audio and video recording facilities, located on the 5th floor. Our content capture suite is wired into to both video and audio within the main hall as well as other locations within the building. Below is the basic list of equipment we have within our studio. Please reach out to production for further information.

Audio Capture Suite

Audio Recording Console

- 1–**AVID** S6L 24C Console
- 1–**AVID** E6-144 Engine with MAD1 192 card
- 1–**AVID** Stage 64 Stage Rack 48 x 8 (on stage)
- 1–**AVID** Stage 32 Stage Rack 24 x 8 (Installed in Control Room)
- **Waves** Soundgrid Rack for Venue

Audio Monitoring

- 2–**Focal** Trio6 BE Nearfield Studio Monitors
- 1–**Focal** Sub 6 Subwoofer

Audio System PC, Storage & Software

- 1–Apple Mac Mini w 32GB RAM 1TD SSD Pro Tools
- 1–Apple Mac Mini w 32GB RAM 2TD SSD Pro Tools (back up record)
- 2–Dell P2418HT 24” Monitor
- 1–Dell P2418HT 24” Monitor

Communications To Stage (including video suite)

- 2 – Riedel 4 ch Comm Base Station



Artist Dressing Rooms

There are seven rooms on B1 Level of the AMC building, plus three more rooms directly under the stage in Massey Hall. Four rooms on B1 level have full washrooms, complete with showers. One room under the stage has a washroom. The others have access to shared washrooms. Two of the rooms can be used as either dressing rooms, or as Production offices.

Catering and Green Room

Catering and Green room is located on B1 Level along with Dressing Rooms. The space is divided by a retractable wall, and can easily be set up as one large area or two smaller separate rooms.

WiFi

There is wifi access throughout the building and dressing room area. Wifi access info is posted throughout the dressing rooms and can be given to tours upon arrival.



Muskoka Spirits Basement Bar

The Muskoka Spirits Basement Bar is located under the main auditorium is equipped as a plug and play club environment.

Staging

A small stage area is available on the South end of the room. Please contact Production Dept for more info.

Power

Basement Bar

Stage Left

Capacity.....1 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

Basement Bar

Stage Right

Capacity.....1 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

Lighting

All overhead lighting is permanently installed over the stage. There is one static, pre-programmed look. If more sophisticated control is required, a controller may be used to program. An IATSE operator will be required for any programming.



Muskoka Spirits Basement Bar

Audio

VENUE PA

- Mains L/R: (4) D&B 24S (2 per Side)
- Subs L/R: (4) D&B 18S Subs (2 per Side)
- Fills: (6) D&B 8S Delays (3 delay rings of 2)

AMPLIFIERS

- (2) D&B 30D DSP Amp
- (1) D&B 10D DSP Amp

PROCESSING

- Meyer Galaxy 616 AES Processor

Microphones and DI's

A basic microphone kit is pulled from general Massey Hall stock, depending on availability.

AUDIO CONSOLE

- Avid S6L-16C
- (2) Stage 16 Remote Box (located in stage left rack)

MONITORS

(Monitors controlled by FOH)

- (6) L'Acoustics 108P powered wedges



Grolsch Bar (Levels 2 & 3)

The Grolsch Bar (levels 2 & 3) are functional spaces connecting to Massey Hall via glass-enclosed passerelles.

Each lobby is equipped with a permanently installed audio systems perfect for receptions, announcements, ambient music, and small performances.

Power

L2 Lobby

East & West side

Capacity.....2 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

L3 Lobby

East & West side

Capacity.....2 x 200 AMP
Phase.....3
Voltage.....120/208
Cycles.....60
Disconnects: "J" series CAM-LOK.
Ground & neutral are reversed

Audio

AUDIO CONSOLE

- AVID S3L (portable, and shared between both lobbies)

AUDIO CONSOLE

- TWO 4-channel portable RF racks to each include:
- (2) Sennheiser EM 3732 COM-II dual-channel receivers
 - (4) Sennheiser SKM 5200-II handheld mics
 - (4) Sennheiser SK 5212 bodypacks
 - (1) DPA 4060 lavalier mic

